TORQ Analysis of Mechanical Engineering Technicians to Electrical Engineering Technicians

INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Mechanical Engineering Technicians	17-3027.00	Abilities:	Importance LeveL: 50	Weight: 1
To Title:	Electrical Engineering Technicians	17-3023.03	Skills:	Importance LeveL: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ: 91

Ability TORQ	Skills TORQ	Knowledge TORQ
Level 96	Level 84	Level 92

Gaps To Narrow if Possible

Ability	Level	Gap	Impt
No Critical Gaps Recorded!			

Upgrade These Skills

Skill	Level	Gap	Impt
Critical Thinking	67	13	73
Mathematics	71	8	74
Troubleshooting	67	4	79
Reading Comprehension	66	2	73
Active Learning	68	2	71

Knowledge to Add

Knowledge	Level	Gap	Impt
Computers and Electronics	73	15	83
Engineering and Technology	77	4	79

LEVEL and IMPT (IMPORTANCE) refer to the Target Electrical Engineering Technicians. GAP refers to level difference between Mechanical Engineering Technicians and Electrical Engineering Technicians.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Mechanical Engineering Technicians	Electrical Engineering Technicians	Importance
Problem Sensitivity	66	48	68
Near Vision	64	57	68
Oral Comprehension	69	62	65
Deductive Reasoning	71	59	65
Written Comprehension	71	60	62
Oral Expression	69	62	59
Inductive Reasoning	66	51	59

Written Expression	62	60	56
Finger Dexterity	53	42	53
Information Ordering	67	57	50
Visualization	64	53	50
Arm-Hand Steadiness	46	46	50

Skill Level Comparison - Abilities with importance scores over 69

Description	Mechanical Engineering Technicians	Electrical Engineering Technicians	Importance
Troubleshooting	63	67	79
Mathematics	63	71	74
Reading Comprehension	64	66	73
Critical Thinking	54	67	73
Active Listening	63	60	71
Active Learning	66	68	71

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Mechanical Engineering Technicians	Electrical Engineering Technicians	Importance
Computers and Electronics	58	73	83
Engineering and Technology	73	77	79

Experience & Education Comparison

Related Work Experience Comparison

Description	Mechanical Engineering Technicians	Electrical Engineering Technicians
10+ years	10%	0%
8-10 years	1%	2%
6-8 years	7%	19%
4-6 years	2%	14%
2-4 years	39%	28%
1-2 years	10%	23%
6-12 months	0%	0%
3-6 months	4%	0%
1-3 months	11%	0%
0-1 month	0%	0%
None	11%	12%

Required Education Level Comparison

Description	Mechanical Engineering Technicians	Electrical Engineering Technicians
Doctoral	0%	0%
Professional Degree	0%	0%
Post-Masters Cert	0%	2%
Master's Degree	0%	0%
Post-Bachelor Cert	0%	0%
Bachelors	43%	21%
AA or Equiv	23%	24%
Some College	0%	32%
Post-Secondary Certificate	14%	19%
High Scool Diploma or GED	16%	0%
No HSD or GED	0%	0%

Mechanical Engineering Technicians	Electrical Engineering Technicians
Most Common Educational/Training Requirement:	
Associate degree	Associate degree
Job Zone Comparison	
3 - Job Zone Three: Medium Preparation Needed	3 - Job Zone Three: Medium Preparation Needed

Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.	Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.
Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.	Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.
Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.	Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.

Tasks

Mechanical Engineering Technicians

Core Tasks

Generalized Work Activities:

- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Interacting With Computers - Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.
- Evaluating Information to Determine Compliance with Standards - Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.

Specific Tasks

Occupation Specific Tasks:

- Analyze test results in relation to design or rated specifications and test objectives, and modify or adjust equipment to meet specifications.
- Calculate required capacities for equipment of proposed system to obtain specified performance and submit data to engineering personnel for approval.
- Confer with technicians and submit reports of test results to engineering department and recommend design or material changes.
- Devise, fabricate, and assemble new or modified mechanical components for products such as industrial machinery or equipment, and measuring instruments.

Electrical Engineering Technicians

Core Tasks

Generalized Work Activities:

- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Identifying Objects, Actions, and Events - Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Updating and Using Relevant Knowledge - Keeping up-to-date technically and applying new knowledge to your job.
- Processing Information - Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.

Specific Tasks

Occupation Specific Tasks:

- Analyze and interpret test information to resolve design-related problems.
- Assemble electrical and electronic systems and prototypes according to engineering data and knowledge of electrical principles, using hand tools and measuring instruments.
- Build, calibrate, maintain, troubleshoot and repair electrical instruments or testing equipment.
- Collaborate with electrical engineers and other personnel to identify, define, and solve developmental problems.
- Conduct inspections for quality control and assurance programs, reporting findings and recommendations.
- Draw or modify diagrams and write engineering specifications to clarify design details and functional criteria of

- Discuss changes in design, method of manufacture and assembly, and drafting techniques and procedures with staff and coordinate corrections.
- Draft detail drawing or sketch for drafting room completion or to request parts fabrication by machine, sheet or wood shops.
- Estimate cost factors including labor and material for purchased and fabricated parts and costs for assembly, testing, or installing.
- Evaluate tool drawing designs by measuring drawing dimensions and comparing with original specifications for form and function using engineering skills.
- Inspect lines and figures for clarity and return erroneous drawings to designer for correction.
- Operate drill press, grinders, engine lathe, or other machines to modify parts tested or to fabricate experimental parts for testing.
- Prepare parts sketches and write work orders and purchase requests to be furnished by outside contractors.
- Read dials and meters to determine amperage, voltage, electrical output and input at specific operating temperature to analyze parts performance.
- Record test procedures and results, numerical and graphical data, and recommendations for changes in product or test methods.
- Review project instructions and blueprints to ascertain test specifications, procedures, and objectives, and test nature of technical problems such as redesign.
- Review project instructions and specifications to identify, modify and plan requirements fabrication, assembly and testing.
- Set up and conduct tests of complete units and components under operational conditions to investigate proposals for improving equipment performance.
- Set up prototype and test apparatus and operate test controlling equipment to observe and record prototype test results.
- Test equipment, using test devices attached to generator, voltage regulator, or other electrical parts, such as generators or spark plugs.

Detailed Tasks

Detailed Work Activities:

- analyze engineering design problems
- analyze engineering test data
- analyze technical data, designs, or preliminary specifications
- calculate engineering specifications
- communicate technical information

- experimental electronics units.
- Evaluate engineering proposals, shop drawings and design comments for sound electrical engineering practice and conformance with established safety and design criteria, and recommend approval or disapproval.
- Install and maintain electrical control systems and solid state equipment.
- Modify electrical prototypes, parts, assemblies, and systems to correct functional deviations.
- Perform supervisory duties such as recommending work assignments, approving leaves and completing performance evaluations.
- Plan method and sequence of operations for developing and testing experimental electronic and electrical equipment.
- Plan, schedule and monitor work of support personnel to assist supervisor.
- Prepare contracts and initiate, review and coordinate modifications to contract specifications and plans throughout the construction process.
- Prepare project cost and work-time estimates.
- Provide technical assistance and resolution when electrical or engineering problems are encountered before, during, and after construction.
- Review existing electrical engineering criteria to identify necessary revisions, deletions or amendments to outdated material.
- Set up and operate test equipment to evaluate performance of developmental parts, assemblies, or systems under simulated operating conditions, and record results.
- Visit construction sites to observe conditions impacting design and to identify solutions to technical design problems involving electrical systems equipment that arise during construction.
- Write commissioning procedures for electrical installations.

Detailed Tasks

Detailed Work Activities:

- analyze engineering test data
- analyze technical data, designs, or preliminary specifications
- analyze test data
- calculate engineering specifications
- calibrate or adjust electronic equipment or instruments to specification
- communicate technical information
- confer with engineering, technical or manufacturing personnel
- develop plans for programs or projects
- draw prototypes, plans, or maps to scale

- conduct performance testing
- confer with engineering, technical or manufacturing personnel
- develop plans for programs or projects
- diagnose mechanical problems in machinery or equipment
- draw prototypes, plans, or maps to scale
- estimate cost for engineering projects
- evaluate engineering data
- examine engineering documents for completeness or accuracy
- fill out purchase requisitions
- follow manufacturing methods or techniques
- follow statistical process control procedures
- inspect facilities or equipment for regulatory compliance
- modify electrical or electronic equipment or products
- operate metal or plastic fabricating equipment/machinery
- operate pneumatic test equipment
- operate precision test equipment
- prepare technical reports or related documentation
- read blueprints
- read schematics
- read technical drawings
- read vehicle manufacturer's specifications
- recommend solutions to engineering problems
- record test results, test procedures, or inspection data
- set up and operate variety of machine tools
- test equipment as part of engineering projects or processes
- understand engineering data or reports
- understand service or repair manuals
- understand technical operating, service or repair manuals
- use drafting or mechanical drawing techniques
- use electrical or electronic test devices or equipment
- use knowledge of metric system
- use precision measuring tools or equipment
- use robotics systems technology
- use scientific research methodology
- use technical information in manufacturing or industrial activities
- use technical regulations for engineering problems

Technology - Examples

- draw prototypes, plans, or maps to scale
- estimate cost for engineering projects
- evaluate engineering data
- fabricate, assemble, or disassemble manufactured products by hand
- follow manufacturing methods or techniques
- follow statistical process control procedures
- inspect facilities or equipment for regulatory compliance
- install electronic equipment, components, or systems
- install, maintain, or repair electronics manufacturing equipment
- install/connect electrical equipment to power circuit
- manage contracts
- modify electrical or electronic equipment or products
- operate precision test equipment
- prepare technical reports or related documentation
- read blueprints
- read manufacturing outlines for electronic products
- read schematics
- read technical drawings
- repair computer controlled manufacturing systems
- repair electronic components, equipment, or systems
- resolve engineering or science problems
- solder electrical or electronic connections or components
- test equipment as part of engineering projects or processes
- troubleshoot electronics manufacturing equipment
- understand detailed electronic design specifications
- understand engineering data or reports
- understand service or repair manuals
- understand technical information for electronic repair work
- understand technical operating, service or repair manuals
- use drafting or mechanical drawing techniques
- use electrical or electronic test devices or equipment
- use knowledge of metric system
- use precision measuring tools or equipment
- use robotics systems technology
- use scientific research methodology
- use technical information in manufacturing or industrial activities

Mechanical Engineering Technicians
Analytical or scientific software
• ANSYS Mechanical
• MSC Software Adams
• Spectral Dynamics STARAcoustics
• Spectral Dynamics STARModal
• The Mathworks MATLAB
• Wolfram Research Mathematica
Computer aided design CAD software
• Autodesk AutoCAD Mechanical
• Autodesk Inventor
• Bentley MicroStation
• Computer aided design CAD software
• IBM CATIA V5
• PTC Pro/ENGINEER software
• SolidWorks CAD software
Computer aided manufacturing CAM software
• CNC Mastercam
• Computer aided manufacturing CAM software
• Three-dimensional 3D solid modeling software
Development environment software
• Microsoft Visual Basic
• National Instruments LabVIEW
Industrial control software
• Computerized numerical control CNC programming software
• Robotic control software
• Soft Servo Systems LadderWorks PLC
Internet browser software
• Web browser software
Office suite software
• Microsoft Office
Presentation software
• Microsoft PowerPoint
Project management software
• Microsoft Project
Spreadsheet software
• Microsoft Excel

Electrical Engineering Technicians
• use technical regulations for engineering problems
Technology - Examples
Analytical or scientific software
• Mentor Graphics ModelSim
• Proportional integral derivative control PID software
• Root cause analysis software
• The Mathworks MATLAB
Computer aided design CAD software
• Autodesk AutoCAD software
• Cadence software
• Computer aided design CAD software
• MicroSim Pspice
• OrCAD Capture
• Prentice Hall Electronic Workbench MultiSim
Data base user interface and query software
• Database software
• Oracle software
Development environment software
• Assembler
• C
• Verilog
Document management software
• Adobe Systems Adobe Acrobat software
Graphics or photo imaging software
• Graphics software
Industrial control software
• Rockwell RS Logix
• Rockwell RSView
Internet browser software
• Microsoft Internet Explorer
Object or component oriented development software
• Computer aided software engineering CASE tools
Office suite software
• Microsoft Office
Operating system software

Word processing software

- Corel WordPerfect software
- Microsoft Word

Tools - Examples

- Accelerometers
- Adjustable wrenches
- Air compressors
- Clamp-on ammeters
- High-voltage amplifiers
- Anemometers
- Optical microscopes
- C clamps
- Dial calipers
- Electronic comparators
- Compression testing machines
- Coordinate measuring machines CMM
- Dynamometers
- Extrusion machines
- Fatigue testers
- Mill files
- Fluid meters
- Rotameters
- Force sensors
- Plane-parallel gauge blocks
- Arc welding equipment
- Bore gauges
- Go/no-go gauges
- Safety goggles
- Digitizing tablets
- Surface grinders
- Polishing machines
- Claw hammers
- Durometers
- Emulators

Spreadsheet software

- Microsoft Excel
- Spreadsheet software

Word processing software

- Microsoft Word

Tools - Examples

- Pliers
- Wrenches
- Dual power supplies
- Ammeters
- Wrist anti-static straps
- Microscopes
- Desktop computers
- Alternating current AC generators
- Digital cameras
- Direct current DC motors
- Dynamometers
- Frequency counters
- Nanosecond universal counters
- Current probes
- Harmonic analyzers
- Welding goggles
- Anti-static heel grounders
- Impedance meters
- Transformers
- Logic analyzers
- Spectrum analyzers
- Laser printers
- Lasers
- Bench lathes
- Magnetic pickup tools
- Programmable logic controllers PLC

- Durometers
- Vernier height gauges
- Hex keys
- Impact testers
- Heat treatment furnaces
- Injection molders
- Metallographs
- Computerized numerical control CNC lathes
- Spirit levels
- Granite surface plates
- Load cells
- Locking pliers
- Long nose pliers
- Metal inert gas MIG welding equipment
- Marking gauges
- Bend test fixtures
- Programmable logic controllers PLC
- Micrometers
- Microprocessors
- Combination milling machines
- Milling machines
- Digital multimeters
- Laptop computers
- Nut drivers
- Oscilloscopes
- Personal computers
- Drafting plotters
- Positioning jigs
- Power drills
- Cylindrical grinders
- Belt sanders
- Band saws
- Pressure sensors

- Microcomputers
- Computerized numerical control CNC machines
- Multimeters
- Notebook computers
- Ohmmeters
- Oscilloscopes
- Personal computers
- Phase shifters
- Phase shift indicators
- Digital plotters
- Dataloggers
- Direct current DC potentiometers
- Drills
- Power meters
- Power screwdrivers
- Q meters
- Screwdrivers
- Function generators
- Soldering equipment
- Desoldering stations
- Stroboscopes
- Wire wrap guns
- Cameras
- Wire strippers
- Tachometers
- Digital voltmeters DVM
- Wattmeters
- Welders
- Welding hoods
- Wire cutters
- Crimping pliers

- Safety gloves
- Protractors
- Center punches
- Hacksaws
- Offset screwdrivers
- Scribers
- Shear testing fixtures
- Power shears
- Signal conditioners
- Signal generators
- Arc-joint pliers
- Socket sets
- Soldering equipment
- Combination squares
- Steel rules
- Strain gauges
- Wire strippers
- Measuring tapes
- Dies
- Temperature sensors
- Tensile testers
- Dynamic mechanical analyzers DMA
- Snap gauges
- Screw thread gauges
- Tungsten inert gas TIG welding equipment
- Twin-screw extruders
- Twist drills
- Ultrasound inspection equipment
- Utility knives
- Vacuum molders
- Freon recovery equipment
- Vibration testers

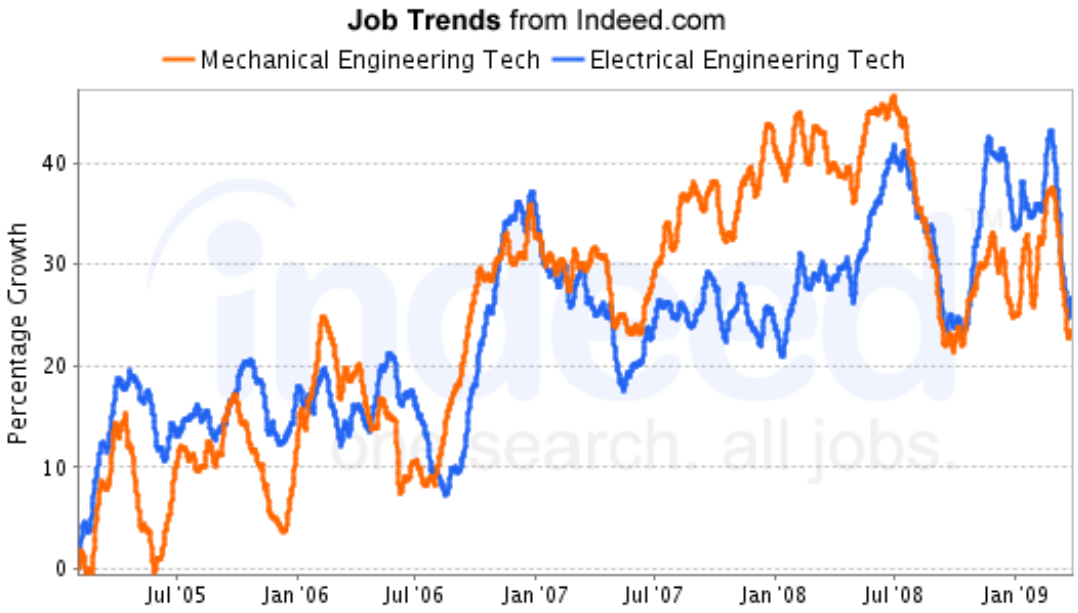
- Spot welders
- Welding masks
- Dry rod ovens
- Wire cutters
- Drill presses

Labor Market Comparison

Description	Mechanical Engineering Technicians	Electrical Engineering Technicians	Difference
Median Wage	$ 44,890	$ 45,180	$ 290
10th Percentile Wage	$ 30,530	$ 25,770	$(4,760)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	$ 51,860	$ 61,600	$ 9,740
90th Percentile Wage	$ 61,330	$ 79,100	$ 17,770
Mean Wage	$ 45,460	$ 48,740	$ 3,280
Total Employment - 2007	130	430	300
Employment Base - 2006	129	449	320
Projected Employment - 2016	132	361	229
Projected Job Growth - 2006-2016	2.3 %	-19.6 %	-21.9 %
Projected Annual Openings - 2006-2016	3	9	6

National Job Posting Trends

Trend for Mechanical Engineering Technicians	Trend for Electrical Engineering Technicians



Data from Indeed

Recommended Programs

Electrical, Electronic and Communications Engineering Technology/Technician

Electrical, Electronic and Communications Engineering Technology/Technician. A program that prepares individuals to apply basic engineering principles and technical skills in support of electrical, electronics and communication engineers. Includes instruction in electrical circuitry, prototype development and testing; systems analysis and testing, systems maintenance, instrument calibration, and report preparation.

Institution	Address	City	URL
Kennebec Valley Community College	92 Western Ave	Fairfield	www.kvcc.me.edu
University of Maine		Orono	www.umaine.edu/
Southern Maine Community College	2 Fort Road	South Portland	www.smccME.edu

Telecommunications Technology/Technician

Telecommunications Technology/Technician. A program that prepares individuals to apply basic engineering principles and technical skills to help design and implement telecommunications systems. Includes instruction in communications protocol, data networking, digital compression algorithms, digital signal processing, Internet access, object-oriented and relational databases, and programming languages.

Institution	Address	City	URL
Eastern Maine Community College	354 Hogan Rd	Bangor	www.emcc.edu

Electrical and Electronic Engineering Technologies/Technicians, Other

Electrical and Electronic Engineering Technologies/Technicians, Other. Any instructional program in electrical and electronic engineering-related technologies not listed above.

Institution	Address	City	URL
Eastern Maine Community College	354 Hogan Rd	Bangor	www.emcc.edu
Southern Maine Community College	2 Fort Road	South Portland	www.smccME.edu

Electromechanical Tech./Technician

Electromechanical Technology/Electromechanical Engineering Technology. A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures, and report preparation.

Institution	Address	City	URL
Central Maine Community College	1250 Turner St	Auburn	www.cmcc.edu
Central Maine Community College	1250 Turner St	Auburn	www.cmcc.edu

Instrumentation Tech./Technician

Instrumentation Technology/Technician. A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in developing control and measurement systems and procedures. Includes instruction in instrumentation design and maintenance, calibration, design and production testing and scheduling, automated equipment functions, applications to specific industrial tasks, and report preparation.

Institution	Address	City	URL
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu

Robotics Tech./Technician

Robotics Technology/Technician. A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using robots. Includes instruction in the principles of robotics, design and operational testing, system maintenance and repair procedures, robot computer systems and control language, specific system types and applications to specific industrial tasks, and report preparation.

No schools available for the program

Computer Engineering Technology/Technician

Computer Engineering Technology/Technician. A program that prepares individuals to apply basic engineering principles and technical skills in support of computer engineers engaged in designing and developing computer systems and installations. Includes instruction in computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation.

Institution	Address	City	URL
Southern Maine Community College	2 Fort Road	South Portland	www.smccME.edu

Computer Technology/Computer Systems Technology

Computer Technology/Computer Systems Technology. A program that prepares individuals to apply basic engineering principles and technical skills in support of professionals who use computer systems. Includes instruction in basic computer design and architecture, programming, problems of specific computer applications, component and system maintenance and inspection procedures, hardware and software problem diagnosis and repair, and report preparation.

No schools available for the program

Maine Statewide Promotion Opportunities for Mechanical Engineering Technicians

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
17-3027.00	Mechanical Engineering Technicians	100	3	130	$44,890.00	$0.00	2%	3

17-3023.03	Electrical Engineering Technicians	91	3	430	$45,180.00	$290.00	-20%	9
27-1021.00	Commercial and Industrial Designers	91	4	140	$49,170.00	$4,280.00	5%	5
17-3013.00	Mechanical Drafters	89	3	710	$46,630.00	$1,740.00	2%	22
17-2141.00	Mechanical Engineers	89	4	620	$67,210.00	$22,320.00	-9%	14
17-2072.00	Electronics Engineers, Except Computer	88	4	210	$76,420.00	$31,530.00	-26%	4
17-2131.00	Materials Engineers	87	4	40	$70,250.00	$25,360.00	-7%	1
17-2112.00	Industrial Engineers	87	4	580	$68,350.00	$23,460.00	11%	22
17-2121.02	Marine Architects	86	4	60	$75,520.00	$30,630.00	-9%	1
51-4111.00	Tool and Die Makers	86	3	160	$51,670.00	$6,780.00	-11%	2
17-3026.00	Industrial Engineering Technicians	86	3	370	$51,700.00	$6,810.00	6%	9
17-2111.03	Product Safety Engineers	85	5	90	$49,940.00	$5,050.00	3%	3
17-2031.00	Biomedical Engineers	84	4	20	$86,560.00	$41,670.00	-10%	1
17-3023.01	Electronics Engineering Technicians	84	3	430	$45,180.00	$290.00	-20%	9
17-2071.00	Electrical Engineers	84	4	260	$73,050.00	$28,160.00	-10%	6

Top Industries for Electrical Engineering Technicians

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Semiconductor and other electronic component manufacturing	334400	11.11%	18,927	16,543	-12.59%
Navigational, measuring, electromedical, and control instruments manufacturing	334500	7.00%	11,938	11,429	-4.26%
Employment services	561300	6.59%	11,227	14,209	26.56%
Wired telecommunications carriers	517100	5.49%	9,362	7,350	-21.49%
Federal government, excluding postal service	919999	5.23%	8,920	8,432	-5.47%
Postal service	491100	4.31%	7,344	7,476	1.80%

Electric power generation, transmission and distribution	221100	4.15%	7,078	6,510	-8.03%
Communications equipment manufacturing	334200	3.23%	5,503	5,547	0.79%
Research and development in the physical, engineering, and life sciences	541710	3.07%	5,233	5,583	6.69%
Electrical and electronic goods merchant wholesalers	423600	2.83%	4,829	5,693	17.90%
Computer and peripheral equipment manufacturing	334100	2.62%	4,464	2,922	-34.54%
Local government, excluding education and hospitals	939300	2.21%	3,764	4,228	12.34%
Computer systems design and related services	541500	1.90%	3,241	4,376	35.02%
Professional and commercial equipment and supplies merchant wholesalers	423400	1.69%	2,888	3,367	16.57%
Aerospace product and parts manufacturing	336400	1.59%	2,708	2,758	1.84%

Top Industries for Mechanical Engineering Technicians

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Research and development in the physical, engineering, and life sciences	541710	8.52%	4,072	4,344	6.69%
Navigational, measuring, electromedical, and control instruments manufacturing	334500	6.30%	3,013	2,884	-4.26%
Testing laboratories	541380	5.16%	2,467	3,037	23.12%
Other general purpose machinery manufacturing	333900	5.01%	2,393	2,376	-0.70%
Semiconductor and other electronic component manufacturing	334400	3.33%	1,593	1,392	-12.59%
Aerospace product and parts manufacturing	336400	3.02%	1,442	1,468	1.84%
Agriculture, construction, and mining machinery manufacturing	333100	2.58%	1,234	1,152	-6.63%
Employment services	561300	2.19%	1,047	1,325	26.56%
Industrial machinery manufacturing	333200	2.14%	1,022	921	-9.88%
Engine, turbine, and power transmission equipment manufacturing	333600	2.05%	980	822	-16.07%
Motor vehicle parts manufacturing	336300	2.00%	957	762	-20.39%
Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	333400	1.94%	926	852	-8.01%
Medical equipment and supplies manufacturing	339100	1.78%	851	870	2.29%
Communications equipment manufacturing	334200	1.74%	833	839	0.79%
Commercial and service industry machinery manufacturing	333300	1.63%	780	684	-12.28%

